Swift Radioplanes, LLC
support@SRP.aero
www.SRP.aero

Lynx

Lynx Technical Specifications

Category	Equipment	Lynx
Airframe	Weight	3.0 – 3.7 kg (6.6 – 8.2 lbs)
	Wingspan	2.3 m (7.5 ft)
	Material	Kevlar, foam core
	Propulsion	Electric motor
	Battery	Li-ion 9 Ah
	Control Surfaces	Rudder, stabilator
	Assembly	Tool-less
	Removable Wing & Tail	✔
	Throttle Safety Key	✔
	Takeoff Button	✔
Performance	Takeoff	Hand launch, automated

	Landing	Deep-stall, automated or manual
	Cruise Speed	16 m/s (36 mph)
	Wind Limit	13 m/s (25 knots)
	Flight Time	Up to 3 hour(s) with Standard Mapping Payload
		1:30 hour(s) with High Resolution Mapping Payload*
		*limited by camera battery life
Radio	Live Telemetry	✔
	Telemetry Radio Range	Line-of-sight (LOS)
	Telemetry Frequency	915 MHz
	RC Frequency (Manual Control)	2.4 GHz
Autopilot	Hardware	Pixhawk 2.1 Cube with Lynx carrier board
	Sensors	1 fixed IMU, 2 vibration isolated and heated IMUs
		2 Barometers, airspeed sensor, magnetometer
		L1/L2 PPK capable GNSS
	Firmware	ArduPlane
	Autonomous Flight Modes	Takeoff, waypoint navigation, survey, loiter, deep-stall
	Optional Manual Control	✔
	Lost-Link Failsafe	✔
	Low Battery Failsafe	✔
	Flight Data Logger	✔
GNSS	Hardware	Septentrio AsteRx-m2
	Constellation	GPS, GLONASS, Galileo, BeiDou, SBAS, QZSS
	Frequency	L1/L2
	PPK Option	✔

	Mapping Horizontal (XY) Accuracy	Down to 3.6 cm RMSE with PPK (post-processed model)
	Mapping Vertical (Z) Accuracy	Down to 3.6 cm RMSE with PPK (post-processed model)
GCS	Ground Control Station	Swift GCS
	Compatibility	Windows, Linux, Mac
	Built-In Checklist	✔
	Automated Preflight Steps	✔
	Touchscreen Optimized	✔
	Automatic Survey Grids	✔
	KML Overlay Import	✔
	Terrain Data Visualization	✔
Payloads	Payload Capacity	700 g (1.5 lbs)
	Swappable Cameras	✔
	Automatic Camera Triggering	✔
	Visible	Sony a6000 24 MP RGB APS-C sensor | 20mm lens
		Sony a7R 36 MP RGB full frame sensor | 35mm lens
	Multispectral (Vegetation Analysis)	MicaSense RedEdge-M (RGB, RE, NIR spectral bands)
	Custom Payloads	Available upon request
	Example Ground Resolution (GSD)	1.76 cm/px - 24 MP @ 90 m AGL (300 ft)
		1.26 cm/px - 36 MP @ 90 m AGL
		2.34 cm/px - 24 MP @ 120 m AGL (400 ft)
		1.68 cm/px - 36 MP @ 120 m AGL
		8.0 cm/px - Multispectral @ 120 m AGL
	Example Ground Coverage	6 sq km (1500 acres) - 24 MP @ 120 m AGL (65% sidelap)
Geo-Tagging	Non-PPK	Swift GCS

	PPK	Septentrio Geotagz
	Output	CSV file, EXIF metadata
	Compatibility	Agisoft Photscan, Pix4D, etc.
Accessories	Charger	200W dual battery charger (100W per output)
	Tool Kit	✔
	Spares Kit	✔
	Aircraft Manual	✔
Transport	Flight Case	Pelican 1740 case - (112.1 x 40.9 x 35.5 cm)
	Support Case (Optional)	Pelican Air 1535 case - (55.7 x 30.4 x 22.8 cm)
	Airline Transportable	✔
	Non-Dangerous Goods (DG) Freight	✔

Flight times can vary due to environmental factors. Users will need a laptop or tablet to run Swift GCS.